

FIGURE 1

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SEQ ID NO:21  AP-----
SEQ ID NO:22  MALNLMA-PTEIKTSLFLDSSKSN-YNLNPLKFQGGFAFKRKDSRCTAAKRHVHCSAQSQS
SEQ ID NO:16  MAALKASFRGELSAAFLDSSRG-PL----VQHKVDFTFQKKGKRAISLRRTCSSMQQAP
SEQ ID NO:06  MALKVVSFPGDLAAVSFLDSNRGGAF----NQLKVDLPFQTRDRRAVSLRRTCCSMQQAP
SEQ ID NO:18  MMALNISSPAEVKSIFFADSFKNCLTAK---FSGGFAFKRKERRAASGGRVYCSVQATP
SEQ ID NO:08  MALNLPS-PAQVKPLFFSSN-----NSTKLPGSFLKRKSDTTVERRRVYCSAAAQS
SEQ ID NO:20  TS-----SFSLLELSSGTTSSRRGAAPRQHQKQKVDLTQRRDKRAAYLR-TCCSMQQGP
1
60

SEQ ID NO:21  -----R-QSWDGPKPISIVGSTGSGTQTLDIVAENPDKFRVVALAAGSNV
SEQ ID NO:22  PPPAWPGRAFPEPGR-MTWEGPKPISIVGSTGSGTQTLDIVAENPDKFRIVALAAGSNV
SEQ ID NO:16  PP-AWPGRAVAEPGR-RSWDGPKPISIVGSTGSGTQTLDIVAENPDKFRIVALAAGSNV
SEQ ID NO:06  PP-AWPGRAVVEPGR-RSWDGPKPISIVGSTGSGTQTLDIVAENPDKFRVVALAAGSNV
SEQ ID NO:18  PPPAWPGRAVPEQGR-KTWDGPKPISIVGSTGSGTQTLDIVAENPDKFKVVALAAGSNV
SEQ ID NO:08  PPPAWPGTAIPEPSDEKTDGQKPISVLSTGSGTQTLTSLIVAEFFPERFKVVSALAAGSNI
SEQ ID NO:20  PP-AWPGRAVAEPER-RSWEGPKPISIVGSTGSGTQTLTSLIVAEFFPERFKVVSALAAGSNV
61
120

SEQ ID NO:21  ***** *** * *** ** *** ***** ** ***** * ***
SEQ ID NO:22  TLLADQVRRFKPALVAVRNESLINELKEALADLDYKLEIIPGEQGVIEVARHPEAVTVVT
SEQ ID NO:16  TLLADQ-KAFKPKLVSVKDESLISELKEALAGFEDMPEIIPGEQGMIEVARHPDAVTVVT
SEQ ID NO:06  TLLADQVKTFKPKLVAVRNESLVDELKEALADCEEKPEIIPGEQGVIEVARHPDAVTVVT
SEQ ID NO:18  TLLADQVKTFKPKLVAVRNESLVDELKEALADCDWKPEIIPGEQGVIEVARHPDAVTVVT
SEQ ID NO:08  TLLADQVKRFKPKLVAVRNESLIAELEELHDVEEKPEIIPGEQGMIEVARHPDAVTVVT
SEQ ID NO:20  TLLADQIKTFKPEVVGLRNESLIDELKEALADVDHKPEIIPGEQGVIEAARHPDATTVVT
121
180
TLLADQVKTFKPKLVAVRNESLNLKEALAGCEEMPEIIPGEQGVIEVARHPDAVTVVT

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FIGURE 1

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SEQ ID NO:21  GIVGCAGLKPTVAAIEAGKDIALANKETLIAGGPFVPLANKHNVKILPADSEHSAIFQC
SEQ ID NO:22  GIVGCAGLKPTVAAIEAGKDIALANKETLIAGGPFVPLAKKHNVKILPADSEHSAIFQC
SEQ ID NO:16  GIVGCAGLKPTVAAIEAGKDIALANKETLIAGGPFVPLAHKHVKILPADSEHSAIFQC
SEQ ID NO:06  GIVGCAGLKPTVAAIEAGKDIALANKETLIAGGPFVPLAQKHVKILPADSEHSAIFQC
SEQ ID NO:18  GIVGCAGLKPTVAAIEAGKDIALANKETLIAGGPFVPLAQKHNVKILPADSEHSAIFQC
SEQ ID NO:08  GIVGCAGLKPTVAAIEAGKDIALANKETMIAGAPFVPLAHKHNIKILPADSEHSAIFQS
SEQ ID NO:20  GIVGCAGLKPTVAAIEAGKDIALANKETLIAGGPFVPLAHKHNVKILPADSEHSAIFQC
181
*****
SEQ ID NO:21  IQGLPEGALRKIIILTASGGAFRDWPVEKLKEVKVADALKHPNWNMGKKITVDSATLF-NK
SEQ ID NO:22  IQGLPEGALRRIILTASGGAFRDLPVEKLKEVKVADALKHSNWNMGKNTVRLQLFFNK
SEQ ID NO:16  IQGLSEGALRRIILTASGGAFRDWPVDRLKDVADALKHPNWNMGKKITVDSATLF-NK
SEQ ID NO:06  IQGLPEGALRRIILTASGGAFRDWPVDKLKEVKVADALKHPNWNMGKKITVDSATLF-NK
SEQ ID NO:18  IQGLPEGALRRVILTASGGAFRDWPVDKLKDVADALKHPNWNMGKKITVDSATLF-NK
SEQ ID NO:08  IQGLPKGALRKILLTGSGGAFREWPAEKMMDIKLADALKHPIWSLGRKITIDSATLF-NK
SEQ ID NO:20  IQGLSEGLRRVILTASGGAFRDWPVEKLKDVADALKHPNWSMGKKITVDSATLF-NK
241
*****
SEQ ID NO:21  GLEVIEAHYLFGAEYDDIEIVIHQPQSIHSMIETQDSSVLAQLGWPDMRLPILYTMSPD
SEQ ID NO:22  GLEVIAKAHYLFGAEYDDIEIVIHSPSIHSMVETQDSSVLAQLGWPDMRLPILYTLSPWE
SEQ ID NO:16  GLEVIEAHYLFGAEYDDIEIVIHQPQSIHSMVETQDSSVLAQLGWPDMRLPILYTLSPD
SEQ ID NO:06  GLEVIEAHYLFGAEYDDIEIVIHQPQSIHSMIETQDSSVLAQLGWPDMRIPPLYTMSPD
SEQ ID NO:18  GLEVIEAHYLFGADYDHIIEIVIHQPQSIHSMIETQDSSVLAQLGWPDMRLPILYTLSPD
SEQ ID NO:08  GLEVIEAHYLFGASYDDIEIVIHQPQSIHSLVETXDSSVNAQLGIPDMRPLLYTLSPWE
SEQ ID NO:20  GLEVIEAHYLFGAEYDDIEIVIHQPQSIHSMIETQDSSVLAQLGWPDMRLPILYTLSPD
301
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*   ***   *****   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
SEQ ID NO:21   RVPCEVTPRLDLCKLGLSLTFKKPDNVKYPSPMDLAYAAGRAGGTMGVLSAANEKAVEM
SEQ ID NO:22   RVYCSEITWPRLDLCKVD-LPFKKPDNREIPAMDLAYAAWKSRSMTMTGVLSAANEKAVEM
SEQ ID NO:16   RIYCSEVTPRLDLCKLGLSLTFRAPDNVVKYPSPMDLAYAAGRAGGTMGVLSAANEKAVEL
SEQ ID NO:06   RIYCSEVTPRLDLCKLGLSLTFKAPDNVVKYPSPMDLAYAAGRAGGTMGVLSAANEKAVEL
SEQ ID NO:18   RIYCSEVTPRLDLCKLGLSLTFKTPDNVVKYPSMNLAFSAGRAGGTMGVLSAANEKAVEM
SEQ ID NO:08   RIYCSEVTPRLDLCKLGLSLTFYAPDDKKFPVSNLCYAAAGRAGGTMGVLSAANEKAVEM
SEQ ID NO:20   RVYCSEVTPRLDLCKLGLSLTFKAPDNVVKYPSVDLAYAAGRAGGTMGVLSAANEKAVEL
361
*   ***   *   *****   **   *   *   *   *   *   *   *   *   *   *   *   *   *
SEQ ID NO:21   FIDEKISYLDIFKVVVELTCDKHRNELVTSPLSEIIVHYDLWAREYAANVQLSS-GARPV
SEQ ID NO:22   FIDEKIGYLDIFKVVVELTCDKHRSEMAVSPSLEEIVHYDQWARDYAATV-LKSAGLSPA
SEQ ID NO:16   FIDEKISYLDIFKVVVELTCNAHRNELVTSPLSEIIVHYDLWARRYAASLQPSS-GLSPV
SEQ ID NO:06   FIDEKIGYLDIFKVVVELTCAHRNELVTRPSLEEIIHYDLWAREYAASLQPST-GLSPV
SEQ ID NO:18   FIDEKISYWNLFKVVVELTCEKHQNELVSSPSLEEIIHYDLWARKYAASLQDSSS-FTPI
SEQ ID NO:08   FVEEKISYLDIFKVVVELTCQEHQKELVASPSLEEIIHYDQWARQYAASLQKXFKCLNPI
SEQ ID NO:20   FIDEKISYLDIFKVVEMTCDHRNELVTRPSLEEIIHYDQWARQFAANLQPSSSGRSPV
421
-----HA
SSEQ ID NO:21
-----LV
SSEQ ID NO:22
-----PA
SSEQ ID NO:16
-----PV
SSEQ ID NO:06
-----LA
SSEQ ID NO:18
FLTYFRSWGCGGLLATASIFCKCIVGSSIL
SSEQ ID NO:08
-----LA
SSEQ ID NO:20
481
510

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